

BRUHATH BENGALORE MAHANAGARA PALIKE YALAHANKA DIVISION
Work : Improvements Roads And Drains At Ambedker Nagara Slum And Kanaka Nagara
um In Ward No.04

No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
1	Civil Work								
	KSRRB 300-3. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil involving , excavated surface leveled & sides neatly dressed , the disposed earth to be levelled neatly after breaking of clods complete as per specification MORTH/ Chapter 3. (Page No. 142/ Item No. 19.1/ PWD SR 2018-19)								
	Desilt								
	Ambedker Nagara								
	1st A Main Road	2	169.00	0.60	0.75	152.10			
	16th A Cross	1	48.00	0.60	0.75	21.60			
	Kanaka Nagara								
	Main Road	2	217.00	0.60	0.75	195.30			
	For New RCC drain								
	1st A Main Road	1	33.00	1.20	1.00	39.60			
	4th A Main Road	2	46.00	1.20	1.00	110.40			
	For CC Road								
	Kanaka Nagara								
	LHS Cross Roads								
	2nd cross	1	78.00	0.90	0.30	21.06			
	4th cross	1	71.00	1.00	0.30	21.30			
	Cross road from 4th to 5th cross	1	18.30	0.90	0.30	4.94			
	5th cross	1	93.70	0.90	0.30	25.30			
	6th cross	1	27.00	0.90	0.30	7.29			
	Cross road b/w 6 & 7th cross	1	33.00	0.90	0.30	8.91			
	7th cross	1	83.00	0.90	0.30	22.41			
	Attached Road From 7th-8th cross	1	41.00	0.90	0.30	11.07			
	8th cross	1	80.00	0.90	0.30	21.60			
	9th cross	1	101.00	0.90	0.30	27.27			
	Ambedker Nagara								
	16th A Cross	1	23.00	7.40	0.30	51.06			
	1st A Main Road	1	67.00	2.30	0.30	46.23			
						787.44	Cum	220.40	173551.78
	Basic Rate	130.00							
	Loading and Unloading	57.00							
	Laead For Earth for 10km	25.60							
	Area Weightage 6%	7.80							
	Grand Total	220.40							
2	Removing And Refixing stone slabs of drains and pointing in C.M (1:3) (Page No.27/ Item No.5.33/ PWD SR 2018-19)								
	Ambedker Nagara								
	1st A Main Road	2	169.00	0.90		304.20			
	16th A Cross	1	48.00	0.90		43.20			
	Kanaka Nagara								
	Main Road	2	204.00	0.90		367.20			
					Sub Total	714.60			
					Consider 15% of missing slab	101.00			
						613.60	Sqm	111.30	68293.68
	Basic Rate	105.00							

Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
Area Weightage 6%	6.30							
Grand Total	111.30							
KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18 PWD SR 2018-19)								
For New RCC drain								
1st A Main Road	1	33.00	1.20	0.15	5.94			
4th A Main Road	2	46.00	1.20	0.15	16.56			
For CC Road								
Kanaka Nagara								
LHS Cross Roads								
2nd cross	1	78.00	3.60	0.15	42.12			
4th cross	1	71.00	3.30	0.15	35.15			
5th cross	1	94.00	4.70	0.10	44.18			
6th cross	1	27.00	2.70	0.10	7.29			
Cross road b/w 6 & 7th cross	1	33.00	2.00	0.10	6.60			
7th cross	1	83.00	3.40	0.10	28.22			
Attached Road From 7th-8th cross	1	41.00	5.60	0.10	22.96			
8th cross	1	80.00	3.50	0.10	28.00			
9th cross	1	101.00	3.50	0.10	35.35			
Ambedker Nagara								
16th A Cross	1	23.00	7.40	0.15	25.53			
1st A Main Road	1	67.00	2.30	0.15	23.12			
					321.01	Cum	5421.90	1740484.12
Basic Rate	5115.00							
Area Weightage 6%	306.90							
Grand Total	5421.90							
Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specifications do- Wall & bottom thickness 15cm (I No-37.59.2,P No-271 PWD SR 2018-19)								
For New RCC drain								
Bottom Raft								
1st A Main Road	1	33.00	0.90	0.15	4.46			
4th A Main Road	2	46.00	0.90	0.15	12.42			
Bottom Raft								
1st A Main Road	2	33.00	0.15	0.75	7.43			
4th A Main Road	4	46.00	0.15	0.75	20.70			
For Coping								
Desilt								
Ambedker Nagara								
1st A Main Road	2	101.00	0.45	0.10	9.09			
	2	217.00	0.15	0.10	6.51			
16th A Cross	2	46.00	0.15	0.10	1.38			
Kanaka Nagara								
Main Road	4	217.00	0.15	0.10	13.02			
Road edge portion	2	62.00	0.45	0.10	5.58			

Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
					80.58	Cum	7070.20	569716.72
Basic Rate	6670.00							
Area Weightage 6%	400.20							
Grand Total	7070.20							
KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 (I No-28.8.2, P No-229 PWD SR 2018-19)								
Consider 50kg/Cum for drain	1	45.00	50.00		2019.00			
					2.02	Tonne	72326.98	146028.17
Basic Rate	68233.00							
Area Weightage 6%	4093.98							
Grand Total	72326.98							
Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc, complete. (Data Rate)								
For New RCC drain								
Bottom Raft								
1st A Main Road	1	35.00	0.90		31.50			
4th A Main Road	2	44.00	0.90		79.20			
		Missing Slabs			102.00			
					212.70	Sqm	2337.00	497079.90
Data Rate	2337.00							
Providing and fixing pre cast solid concrete kerb stones of size 450x200x400 mm made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting etc., complete. (Page No.27/ Item No.5.29.1/ PWD SR 2018-19)								
For New Kerb								
Ambedker Nagara								
1st A Main Road	2	65.00			130.00			
4th A Main Road	2	44.50			89.00			
Kanaka Nagara								
Main Road	2	108.00			216.00			
					966.00	No's	477.00	460782.00
Basic Rate	450.00							
Area Weightage 6%	27.00							
Data Rate	477.00							
KSRB 15-19.1 : Providing and applying ready mix priming coat over concrete / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after thoroughly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications. (Page No.120, Item No.15.8 Of KPWD S.R 2018-19)								
kerb painting								
For New Kerb								
Ambedker Nagara								
1st A Main Road	2	65.00		0.40	52.00			
4th A Main Road	2	44.50		0.40	35.60			
Kanaka Nagara								
Main Road	2	108.00		0.40	86.40			
					174.00	Sqm	39.22	6824.28
Basic Rate	37.00							
Area Weightage 6%	2.22							
Data Rate	39.22							

Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications (I No-24.1,P No-180 KPWD S.R 2018-19)								
kerb painting								
					Qty Same as vide item			
					174.00			
					174.00	Sqm	84.80	14755.20
Basic Rate	80.00							
Area Weightage 6%	4.80							
Data Rate	84.80							
KSRRB M400- Wet Mix Macadam KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 (Page No.155.tem No.20.18,PW,P & IWTD SR 2018-19)								
For CC Road								
Kanaka Nagara								
LHS Cross Roads								
2nd cross	1	78.00	0.90	0.15	10.53			
4th cross	1	71.00	1.00	0.15	10.65			
Cross road from 4th to 5th cross	1	18.30	0.90	0.15	2.47			
5th cross	1	93.70	0.90	0.15	12.65			
6th cross	1	27.00	0.90	0.15	3.65			
Cross road b/w 6 & 7th cross	1	33.00	0.90	0.15	4.46			
7th cross	1	83.00	0.90	0.15	11.21			
Attached Road From 7th-8th cross	1	41.00	0.90	0.15	5.54			
8th cross	1	80.00	0.90	0.15	10.80			
9th cross	1	101.00	0.90	0.15	13.64			
Ambedker Nagara								
16th A Cross	1	23.00	7.40	0.15	25.53			
1st A Main Road	1	67.00	2.30	0.15	23.12			
For Aphalt Road								
Ambedker Nagara								
4th A Main Road	1	48.00	13.20	0.15	95.04			
1st Main Road	1	69.00	13.40	0.15	138.69			
					367.95	Cum	2001.28	736370.98
Basic Rate	1888.00							
Area Weightage 6%	113.28							
Data Rate	2001.28							
Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. - M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum) (Page No. 175.tem No.22.6.1,PW,P & IWTD SR 2018-19)								

Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
Foam Road								
Kanaka Nagara								
LHS Cross Roads								
2nd cross	1	78.00	3.60	0.15	42.12			
4th cross	1	71.00	3.30	0.15	35.15			
5th cross	1	94.00	4.70	0.15	66.27			
6th cross	1	27.00	2.70	0.15	10.94			
Cross road b/w 6 & 7th cross	1	33.00	2.00	0.15	9.90			
7th cross	1	83.00	3.40	0.15	42.33			
Attached Road From 7th-8th cross	1	41.00	5.60	0.15	34.44			
8th cross	1	80.00	3.50	0.15	42.00			
9th cross	1	101.00	3.50	0.15	53.03			
RHS Cross Roads								
1st cross	1	11.00	3.00	0.15	4.95			
2nd cross	1	5.40	3.00	0.15	2.43			
3rd cross	1	14.00	3.00	0.15	6.30			
4th cross	1	14.00	3.00	0.15	6.30			
5th cross	1	14.00	3.00	0.15	6.30			
6th cross	1	14.00	3.00	0.15	6.30			
7th cross	1	14.00	3.00	0.15	6.30			
8th cross	1	14.00	3.40	0.15	7.14			
	1	35.50	0.90	0.15	4.79			
Ambedker Nagara								
16th A Cross	1	48.00	8.90	0.15	64.08			
1st A Main Road	1	116.00	5.50	0.15	95.70			
					546.76	Cum	5210.96	2849131.46
Basic Rate	4916.00							
Area Weightage 6%	294.96							
Data Rate	5210.96							
Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift.(Page No. 176.tem No.22.7 PW,P & IWTD SR 2018-19)								
For CC Road								
Kanaka Nagara								
LHS Cross Roads								
2nd cross	1	78.00	3.60		280.80			
4th cross	1	71.00	3.30		234.30			
5th cross	1	94.00	4.70		441.80			
6th cross	1	27.00	2.70		72.90			
Cross road b/w 6 & 7th cross	1	33.00	2.00		66.00			
7th cross	1	83.00	3.40		282.20			
Attached Road From 7th-8th cross	1	41.00	5.60		229.60			
8th cross	1	80.00	3.50		280.00			
9th cross	1	101.00	3.50		353.50			
RHS Cross Roads								
1st cross	1	11.00	3.00		33.00			
2nd cross	1	5.40	3.00		16.20			
3rd cross	1	14.00	3.00		42.00			
4th cross	1	14.00	3.00		42.00			

Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
5th cross	1	14.00	3.00		42.00			
6th cross	1	14.00	3.00		42.00			
7th cross	1	14.00	3.00		42.00			
8th cross	1	14.00	3.40		47.60			
	1	45.00	1.30		58.50			
Ambedker Nagara								
16th A Cross	1	48.00	8.90		427.20			
1st A Main Road	1	116.00	5.50		638.00			
					3671.60	Sqm	72.08	264648.93
Basic Rate	68.00							
Area Weightage 6%	4.08							
Data Rate	72.08							
KSRRB M500-6. Providing and applying primer coat with bitumen emulsion on prepared surface of granular base including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH Specification No. 502 (Page No-161 Item no - 21.6 of KPWD SR 2018-19)								
For Aphalt Road								
Ambedker Nagara								
4th A Main Road	1	48.00	6.70		321.60			
1st Main Road	1	69.00	9.40		648.60			
					970.20	Sqm	36.04	34966.01
Basic Rate	34.00							
Area Weightage 6%	2.04							
Grand Total	36.04							
KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications.. MORTH Specification No. 507 - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (Page No-160 Item no -21.17.6 of KPWD SR 2018-19).								
For Aphalt Road								
Ambedker Nagara								
4th A Main Road	1	44.00	3.10	0.05	6.82			
1st Main Road	1	69.00	9.30	0.05	32.09			
					38.91	Cum	7721.04	300387.06
Basic Rate	7284.00							
Area Weightage 6%	437.04							
Grand Total	7721.04							
KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501 (Page No-161 Item no - 21.2 of KPWD SR 2018-19).								
For Aphalt Road								
Ambedker Nagara								
4th A Main Road	1	48.00	6.70		321.60			
1st Main Road	1	69.00	9.40		648.60			
					970.20	Sqm	5.30	5142.06

Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
Basic Rate	5.00							
Area Weightage 6%	0.30							
Grand Total	5.30							
KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VGIO) on the prepared black topped surfaces at 2.5 kg per 10sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH (Page No-161 Item no - 21.7 of KPWD SR 2018-19).								
For Aphalt Road								
Ambedker Nagara								
4th A Main Road	1	48.00	6.70		321.60			
1st Main Road	1	69.00	9.40		648.60			
					970.20	Sqm	14.84	14397.77
Basic Rate	14.00							
Area Weightage 6%	0.84							
Grand Total	14.84							
KSRRB M500-19. Providing and laying bituminous concrete 40 mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects complete as per specifications. MORTH Specification No. 509 - using 40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 40 mm) with 5.4 % VG-30 Bitumen Item No.21.22.6) (P.No.162 & I.No.21.22.6 PWD 18-19)								
For Aphalt Road								
Ambedker Nagara								
4th A Main Road	1	48.00	13.20	0.04	25.34			
1st Main Road	1	69.00	13.40	0.04	36.98			
					62.33	Cum	8980.32	559725.38
Basic Rate	8472.00							
Area Weightage 6%	508.32							
Grand Total	8980.32							
KSRRB M800-13: Road marking with hot applied thermoplastic compound with reflect rising glass beads on bituminous surface- providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface to level, uniform and free from streaks and holes complete as per specifications. MORTH specification No. 803, No. 1974 (P.No.185 & I.No.24.15 PWD 18-19)								
For Aphalt Road								
Ambedker Nagara								
4th A Main Road	2	48.00	0.15		14.40			
1st Main Road	2	69.00	0.15		20.70			
					35.10	Sqm	454.74	15961.37
Basic Rate	429.00							
Area Weightage 6%	25.74							
Grand Total	454.74							
Total Construction Cost								8458246.87
GST Charges 12%								1014989.62
KRIDL Charges 4%								338329.87
Towards PMC cost 1%								84582.47
Sub Total								9896148.83

Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
Utility Shifting, Miscellaneous and Rounding off								229.78
GRAND TOTAL								9900000.00

ortificate

- The workspot was inspected and works is found to be necessary.
- The area comes within the Bruhat Bangalore Mahanagara Palike limits.
- The rates adopted based on the PWD SR, Bangalore circle for year 2018-19 and Data Rates

Rameshwar
Assistant Engineer
Ward No.04

[Signature]
Executive Engineer,
Yelahanka Division
Bangalore-64

[Signature]
Asst. Executive Engineer,
Yelahanka Satellite town Sub division,
Bangalore-64

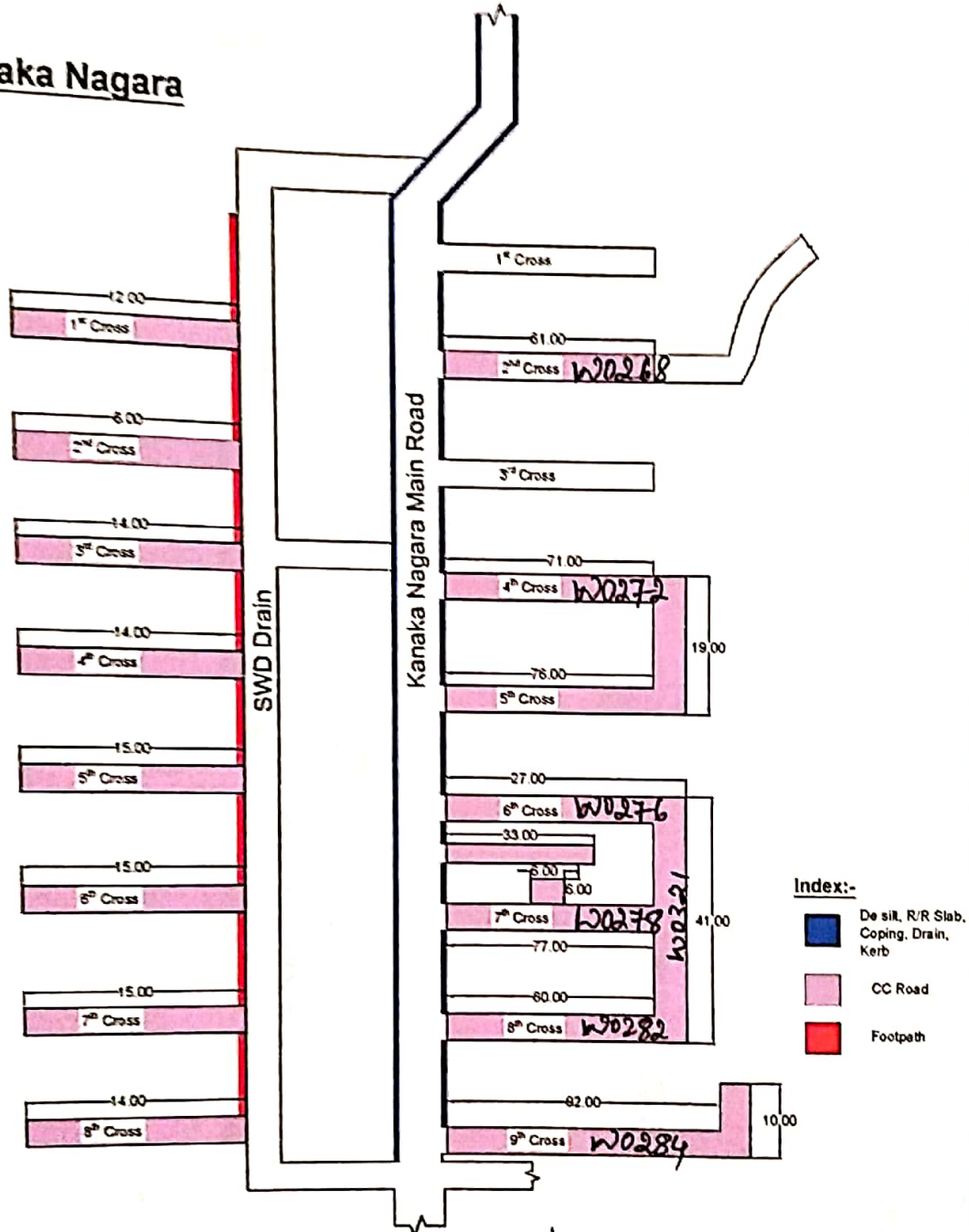
Administrative Sanction for Rs. 99.00 Lakhs
Ninty Nine Lakhs only
 is accorded under head P-1878
18. PRC works 2018-19
 Registered as CE No. Subject
 to conditions contained in enclosed memo
 No. EE/Y.N.K./135/21/2019-20 Dt. 19/01/2019
[Signature]
 Executive Engineer

Technical Sanction
 Accorded For Rs. 99.00 Lakhs only
 Head of A/C. P-1878
 CER NO : 94 Dt. 23.10.2019

[Signature]
[TA] CE (YNK)

Name of work:- Improvements of Roads and Drains at Ambekar nagara Slum and Kanaka Nagara Slum in Ward No.04

Kanaka Nagara



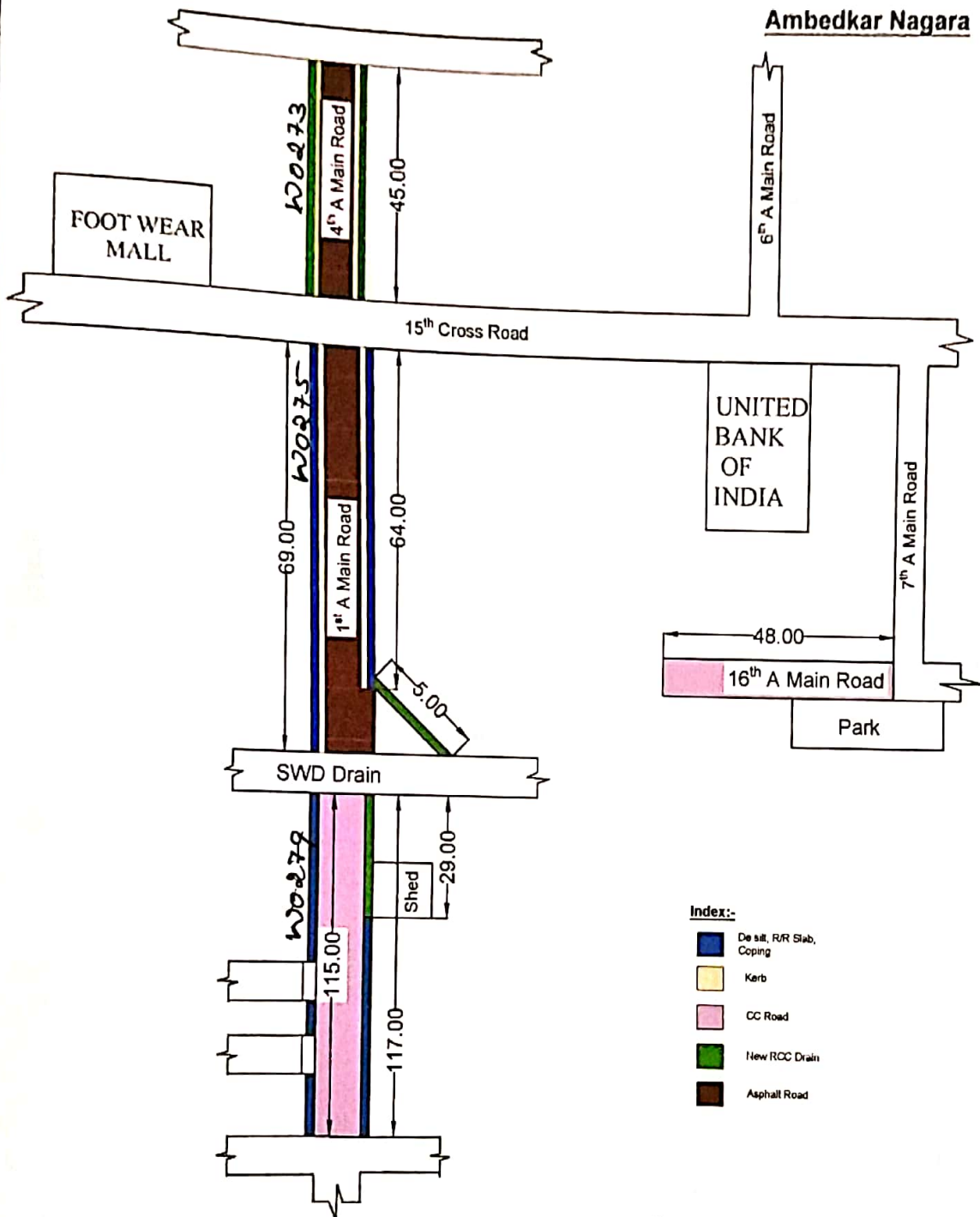
Ramjacob
Assistant Engineer
Ward No.04

Jaishin
Assistant Executive Engineer
Yelahanka Satellite Town Sub division

ALL DIMENSIONS IN METERS

Name of work:- Improvements of Roads and Drains at Ambedkar nagara Slum and Kanaka Nagara Slum in Ward No.04

Ambedkar Nagara



Index:-

- De sst, R/R Slab, Copping
- Kerb
- CC Road
- New RCC Drain
- Asphalt Road

Rengas
Assistant Engineer
Ward No.04

Kanin
Assistant Executive Engineer
Yelahanka Satellite Town Sub division
ALL DIMENSIONS IN METERS